

## WEST Search History





DATE: Tuesday, May 29, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L6	(lipase or lipolytic enzyme) and humicola lanuginosa and (gly adj3 263 or glycine adj3 263 or G adj3 263)	2
<input type="checkbox"/>	L5	L4	0
		<i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L4	(lipase or lipolytic enzyme) and humicola lanuginosa and (gly adj3 263 or glycine adj3 263 or G adj3 263)	1
<input type="checkbox"/>	L3	(lipase or lipolytic enzyme) and humicola lanuginosa and (gly-263 or glycine 263 or G263)	3
		<i>DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L2	(lipase or lipolytic enzyme) and humicola lanuginosa and (gly-263 or glycine 263 or G263)	3
<input type="checkbox"/>	L1	(lipase or lipolytic enzyme) and humicola lanuginosa and 263	148

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**Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: US 5976855 A

L2: Entry 1 of 3

File: USPT

Nov 2, 1999

US-PAT-NO: 5976855

DOCUMENT-IDENTIFIER: US 5976855 A

TITLE: Method of preparing a variant of a lipolytic enzyme

DATE-ISSUED: November 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Svendsen; Allan	Birker.o slashed.d			DK
Clausen; Ib Groth	Hiller.o slashed.d			DK
Okkels; Jens Sigurd	Frederiksberg C			DK
Thellersen; Marianne	Frederiksberg C			DK

US-CL-CURRENT: 435/198; 435/252.3, 435/320.1, 435/471, 435/69.1, 435/832, 435/849, 435/874, 435/886, 435/911, 435/913, 536/23.2

## ABSTRACT:

The present invention relates to a method of preparing a variant of a parent lipolytic enzyme, comprising (a) subjecting a DNA sequence encoding the parent lipolytic enzyme to random mutagenesis, (b) expressing the mutated DNA sequence obtained in step (a) in a host cell, and (c) screening for host cells expressing a mutated lipolytic enzyme which has a decreased dependance to calcium and/or an improved tolerance towards a detergent or a detergent component as compared to the parent lipolytic enzyme.

21 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 2. Document ID: US 5892013 A

L2: Entry 2 of 3

File: USPT

Apr 6, 1999

US-PAT-NO: 5892013

DOCUMENT-IDENTIFIER: US 5892013 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Lipase variants

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Svendsen; Allan	Birker.o slashed.d			DK
Patkar; Shamkant Anant	Lyngby			DK
Gormsen; Erik	Virum			DK
Clausen; Ib Groth	Hiller.o slashed.d			DK
Okkels; Jens Sigurd	Frederiksberg			DK
Thellersen; Marianne	Frederiksberg			DK

US-CL-CURRENT: 536/23.2; 435/198, 435/252.3, 435/320.1, 435/69.1, 536/23.7

ABSTRACT:

The present invention relates to lipase variants which exhibit improved properties, detergent compositions comprising said lipase variants, DNA constructs coding for said lipase variants, and methods of making said lipase variants.

39 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 3. Document ID: US 5869438 A

L2: Entry 3 of 3

File: USPT

Feb 9, 1999

US-PAT-NO: 5869438

DOCUMENT-IDENTIFIER: US 5869438 A

TITLE: Lipase variants

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Svendsen; Allan	Birker.o slashed.d			DK
Patkar; Shamkant Anant	Lyngby			DK
Gormsen; Erik	Virum			DK
Okkels; Jens Sigurd	Frederiksberg			DK
Thellersen; Marianne	Frederiksberg			DK

US-CL-CURRENT: 510/226; 435/196, 435/198, 435/252.3, 435/320.1, 435/69.1, 510/305, 510/392, 530/350, 536/23.2, 536/23.7

## ABSTRACT:

The present invention relates to lipase variants which exhibit improved properties, detergent compositions comprising said lipase variants, DNA constructs coding for said lipase variants, and methods of making said lipase variants.

51 Claims, 10 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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Terms	Documents
(lipase or lipolytic enzyme) and humicola lanuginosa and (gly-263 or glycine 263 or G263)	3

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☐ 1. Document ID: US 20050255544 A1

L7: Entry 1 of 3

File: PGPB

Nov 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050255544

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050255544 A1

TITLE: Lipolytic enzyme variants and method for their production

PUBLICATION-DATE: November 17, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Svendsen, Allan	Horsholm		DK
Vind, Jesper	Vaerlose		DK
Heldt-Hansen, Hans Peter	Virum		DK
Erlandsen, Luise	Copenhagen		DK

US-CL-CURRENT: [435/69.1](#); [435/198](#), [435/254.1](#), [435/483](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw De
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☐ 2. Document ID: US 20050181446 A1

L7: Entry 2 of 3

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050181446

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050181446 A1

TITLE: Protein variants having modified immunogenicity

PUBLICATION-DATE: August 18, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Roggen, Erwin Ludo	Lyngby		DK
Ernst, Steffen	Broenshoej		DK
Svendsen, Allan	Hoersholm		DK
Friis, Esben Peter	Valby		DK
Osten, Claus Von Der	Lyngby		DK

US-CL-CURRENT: [435/7.1](#); [435/320.1](#), [435/325](#), [435/5](#), [435/69.1](#), [702/19](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20050059130 A1

L7: Entry 3 of 3

File: PGPB

Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050059130

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050059130 A1

TITLE: Lipolytic enzyme variants

PUBLICATION-DATE: March 17, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bojsen, Kirsten	Hellerup		DK
Svendsen, Allan	Horsholm		DK
Fuglsang, Claus Crone	Niva		DK
Patkar, Shamkant Anant	Lyngby		DK
Borch, Kim	Birkerod		DK
Vind, Jesper	Lyngby		DK
Petri, Andreas	Copenhagen		DK
Schroder Glad, Sanne O.	Ballerup		DK
Budolfsen, Gitte	Frederiksberg		DK

US-CL-CURRENT: [435/198](#); [435/252.31](#), [435/320.1](#), [435/69.1](#), [510/320](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Terms	Documents
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